SSSMDR-502
Smoke Dampers
UL 555S Leakage Class II

Application

Model SSSMDR-502 is a 304 stainless steel round smoke damper with extremely low leakage. The SSSMDR-502 has been qualified to 3,000 fpm (15.2m/s) and 4 in. wg (1.0 kPa) for operational closure in emergency smoke control situations, for use in HVAC system applications.

Model SSSMDR-502 meets the requirements for smoke dampers established by:

National Fire Protection Association
NFPA Standards 92A, 92B, 101 & 105

BOCA National Building Codes

IBC International Building Codes

ICBO Uniform Building Codes

SBCCI Standard Building Codes

New York City (MEA listing #260-91-M)

California State Fire Marshall
Listing #: 2330-0981:104

Ratings

Leakage:	Class II
Pressure:	4 in. wg (1 kPa) - differential pressure
Maximum Velocity:	3000 fpm (15.2 m/s)
Temperature:	350°F (177°C) depending on the actuator.

Standard Construction

Frame/Sleeve:	20 ga. (1mm) stainless steel integral sleeve
Blades:	Double skin stainless steel (14 ga. [2mm] equivalent) round style blades
Seals:	Silicone rubber.
Axles:	½ in. (13mm) dia. stainless steel.
Bearings:	Stainless steel sleeve type

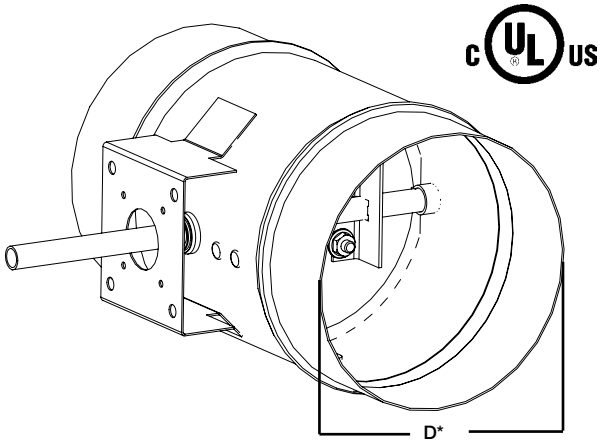
"UL CLASSIFIED (see complete marking on product)"
"UL CLASSIFIED to Canadian safety standards (see complete marking on product)"
Standard 555S (Listing #R13317)

Size Limitations:

Minimum Size:	6 in. diameter (152mm)
Maximum Size:	24 in.diameter (610mm)

Optional Features:

- Electric or pneumatic actuators to accomplish smoke management and system functions.
- Open/Close Indicator (OCI) for remote indication of blade position.
- 14 ga. (2mm) or 16 ga. (1.5mm) frame/sleeve



* D dimension furnished approximately ⅛ in. (3mm) undersize.

Installation instructions available at www.greenheck.com.

Specifications

True Round Smoke Dampers meeting the following specifications shall be funrished and installed where shown on plans and/or as described in schedules. Dampers shall meet the requirements of the latest edition of NFPA 92A, 92B, 101 & 105.

Dampers shall be tested, rated and labeled in accordance with the latest edition of UL Standards 555S. Dampers shall be UL labeled for use in dynamic systems. The damper shall have a dynamic closure airflow rating equal to or greater than the airflow at the damper's installed location and a dynamic closure pressure rating of 4 in. wg (1 kPa).

Dampers shall have a UL 555S leakage rating of Class II and a temperature rating of 250° F (121°C). Dampers shall have a UL555S operational airflow rating equal to or greater than the airflow at its installed location and an operational pressure rating of 4 in. wg (1 kPa). Damper actuators shall be factory mounted and qualified for use with the damper in accordance with UL555S.

Damper actuators shall be (specified select one of the following) electric type for 120 (or 24) volt operation or pneumatic type for 25 psi minimum (30 psi maximum) operation. Manufacturer's submittal data shall indicate actuator space requirements around the damper. All UL555S operational ratings and leakage ratings shall be qualified for airflow and pressure in either direction through the damper. UL ratings shall allow for mounting damper vertically or horizontally.

The Damper Manufacturer's submittal data shall certify all air performance pressure drop data is licensed in accordance with the AMCA certified ratings program for test figures 5.2, 5.3, and 5.5. Damper air performance data shall be developed in accordance with the latest edition of AMCA Standard 500-D.

Basis of design is Greenheck's model SSSMDR-502.

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